Acta Neuropathologica

Volume 56 · 1982

Organ of the Research Group for Neuropathology, of the Research Group for Comparative Neuropathology, and of the Research Group for Neurooncology of the World Federation of Neurology

Editorial Board

W. Blackwood, Sevenoaks/Kent

L. van Bogaert, Wilrijk

R. Escourolle, Paris K. Jellinger, Wien

I. Klatzo, Bethesda

W. Krücke, Frankfurt/Main

G. Peters, München

L. J. Rubinstein, Charlottesville

F. Seitelberger, Wien

H. Shiraki, Tokyo

K. J. Zülch, Köln-Merheim

Managing Editors

K. Jellinger, F. Seitelberger

Advisory Board

H. Bernheimer, Wien

K. H. Blinzinger, München

A. N. Davison, London

R. Fankhauser, Bern

R. Friede, Zürich

N. Grčević, Zagreb

H. Hager, Giessen

R. Hassler, Frankfurt/Main

H. Jatzkewitz, München

St. Környey, Budapest

W. G. P. Mair, London

J. J. Martin, Wilrijk

W. Müller, Köln-Lindenthal

E. P. Richardson, Jr., Boston

P. Sourander, Göteborg

P. K. Thomas, London

H. Webster, Bethesda

E. Wildi, Genève

H. M. Wisniewski, New York



Springer International

Acta Neuropathologica was founded in 1961. Editorial Board: I. Bertrand, Paris, W. Blackwood, Sevenoaks/Kent, L. van Bogaert, Wilrijk, E. Frauchiger, Bern, W. Haymaker, Moffet Field, W. Krücke, Frankfurt/Main, F. Lüthy, Zürich, W. Scholz, München, F. Seitelberger, Wien. Managing Editor: F. Seitelberger. Berlin Göttingen Heidelberg: Springer-Verlag, Wien: Springer-Verlag.

The exclusive copyright for all languages and countries, including the right for photomechanical and other reproductions, is transferred to the publisher.

The quotation of registered names, trademarks, etc. in this journal does *not* imply, even in the absence of a specific statement, that such names are exempt from laws and regulations protecting trademarks, etc. and therefore free for general use.

While the advice and information in this journal is believed to be true and accurate at the date of going to press, neither the authors nor the editors nor the publishers can accept legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Authors of this journal can benefit from library and photocopy fees collected by VG WORT if certain conditions are met. If an author lives in the Federal Republic of Germany or in West Berlin it is recommended that he contacts Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Goethestraße 49, D-8000 München 2, for detailed information.

Springer-Verlag, Berlin Heidelberg New York

Springer-Verlag, Wien New York

Printed in Germany - © Springer-Verlag GmbH & Co KG, Berlin Heidelberg 1982

Printers: Wiesbadener Graphische Betriebe GmbH, D-6200 Wiesbaden

Contents

Adler, D., Horoupian, D. S., Towfighi, J., Gandolfi, A.,		Heinicke, E. A.: The Effect of Acute Ethanol Intoxication and	
Suzuki, K.: Status Marmoratus and Bielschowsky Bodies. A		Chronic Ethanol Consumption on Vascular Permeability	
Report of Two Cases and Review of the Literature	75		273
Aguirre Errasti, C., see Villar Negro, A. del, et al	250		214
Askevold, F., see Lindboe, Ch. F., et al	299		265
D/ E C / I - I			285
Bácsy, E., see Gazsó, L., et al	245		315
Bigner, D. D., see McComb, R. D., et al.	207	Hildebrand, C.: Electron-microscopic Identification of	20
Bowers, D. E., Jr., see Rieke, G. K	123	Gomori-positive Rings in Normal Spinal Cord White Matter	29
Budka, H.: Hyaline Inclusions (Pseudopsammoma Bodies) in Meningiomas: Immunocytochemical Demonstration of		Hirano, H., see Hori, T., et al	67 35
Epithel-like Secretion of Secretory Component and		Holmes, D. F., see Cummings, J. F., et al.	167
Immunoglobulins A and M	294	Hori, A., Ikeda, K.: Symmetric Ganglionic Hamartoma of	107
Budka, H., Lassmann, H., Popow-Kraupp, Th.: Measles Virus	274	Hypothalamus Appearing as Four "Mamillary" Bodies .	238
Antigen in Panencephalitis. An Immunomorphological		Hori, T., Nishiyama, F., Matsutani, M., Teramoto, A.,	
Study Stressing Dendritic Involvement in SSPE	52	Takakura, K., Sano, K., Hirano, H.: Lectin-Binding Sites of	
		the Human Pituitary Adenoma Cells by Means of the	
Canfield, P. J., see Harley, W. J., et al	225	Ferritin-labeling Technique	67
Caren, C. A., see Mitchell, J	187	Houthoff, H. J., Go, K. G., Gerrits, P. O.: The Mechanisms of	
Carp, R. I., see Kozlowski, P. B., et al	9	Blood-Brain Barrier Impairment by Hyperosmolar	
Chazot, G., see Kopp, N., et al	17	Perfusion. An Electron Cytochemical Study Comparing	
Chiba, Y., see Yagishita, S., et al	22	Exogenous HRP and Endogenous Antibody to HRP as	
Coster, W. de, see Reuck, J. de, et al	136	Tracers	99
Cravioto, H. M., Hochwald, G. M., Ransohoff, J.: A Study of		Horoupian, D. S., see Adler, D., et al	75
Reactions to Corynebacterium Parvum (C. Parvum) in the	35	Ibelgaufts, H., Jones, K. W., Maitland, N., Shaw, J. F.:	
Brain and Dermis of the Rat	33	Adenovirus-releated RNA Sequences in Human Neurogenic	
D.: Coonhound Paralysis. Further Clinical Studies and		Tumours	113
Electron Microscopic Observations	167	Ibelgaufts, H., Jones, K. W.: Papovavirus-related RNA	
		Sequences in Human Neurogenic Tumours	118
De Jonghe, P., see Martin, J. J., et al	303	Ikeda, K., see Hori, A	238
Denoroy, L., see Kopp, N., et al	17	Ikuta, F., see Ohama, E	13
Diani, A. R., see Garris, D. R., et al	63	Itoh, Y., see Yagishita, S., et al	22
Donnelly, T. M., see Harley, W. J., et al.	225	Jakobsen, J., Jensen, H. D., Sidenius, P.: Change in Mast Cell	
		Dimensions Increases the Profile Number in Sections of	
Eecken, H. vander, see Reuck, J. de, et al	136	Peripheral Nerve of Diabetic Rats	157
Eng, L. F., see Ramsey, P. B., et al	214	Jensen, H. D., see Jakobsen, J., et al	
Francisco I D. and Marie I I and	202	Jones, K. W., see Ibelgaufts, H., et al	113
Farriaux, J. P., see Martin, J. J., et al	303	Jones, K. W., see Ibelgaufts, H	118
porphinesulfonate (TPPS) on Muscle End-Plates in Mice.		Jones, T. R., see McComb, R. D., et al	207
An Ultrastructural and Quantitative Study	201		200
Fujisawa, K., Nakamura, A.: The Human Purkinje Cells. A	201	Kamoshita, S., see Masuzawa, T., et al	307
Golgi Study in Pathology	255	Kihm, U., see Vandevelde, M., et al	283
Fukuhara, N., Kumamoto, T., Takasawa, H., Tsubaki, T.,		Knox, C. A.: Effects of Aging and Chronic Arterial Hyper- tension on the Cell Populations in the Neocortex and	
Origuchi, Y.: The Peripheral Neuropathy in De Sanctis-		Archicortex of the Rat	139
Cacchione Syndrome. Histological, Ultrastructural, and		Koh, ChS., see Tsukada, N., et al	279
Morphometric Studies	194	Kopp, N., Denoroy, L., Tommasi, M., Gay, N., Chazot, G.,	
Funata, N., see Okeda, R., et al	265	Renaud, B.: Increase in Noradrenaline-synthesizing Enzyme	
		Activity in Medulla Oblongata in Parkinsons's Disease .	17
Gambarelli, D., see Hassoun, J., et al		Kozlowski, P. B., Moretz, R. C., Carp, R. I., Wisniewski, H.	
Gambarelli, D., see Toga, M.		M.: Retinal Damage in Scrapie Mice	9
Gandolfi, A., see Adler, D., et al	75		285
Garris, D. R., Diani, A. R., Smith, C., Gerritsen, G. C.:		Kristensen, F., see Vandevelde, M., et al 1;	
Depopulation of the Ventromedial Hypothalamic Nucleus in the Diabetic Chinese Hamster	63	Kumamoto, T., see Fukuhara, N., et al	194
Gay, N., see Kopp, N., et al	17	Kuramoto, R., see Miyakawa, T., et al	
Gazsó, L., Bácsy, E., Pásztor, E.: Light- and Electron-	• • •	Kuwana, N., see Yagishita, S., et al	22
microscopic Features of an Endocrinologically Active		Lahunta, A. de, see Cummings, J. F., et al	167
Pituitary Adenoma Cultured in Vitro	245	Lassmann, H., see Budka, H., et al	52
Gerrits, P. O., see Houthoff, H. J., et al	99	Lindboe, Ch. F., Askevold, F., Slettebø, M.: Changes in	
Gerritsen, G. C., see Garris, D. R., et al	63	Skeletal Muscles of Young Women with Anorexia Nervosa.	
Go, K. G., see Houthoff, H. J., et al	99	An Enzyme Histochemical Study	299
Grisoli, F., see Hassoun, J., et al	151	Lindboe, Ch. F., Platou, Ch. S.: Disuse Atrophy of Human	
W W W G W / W /	0.	Skeletal Muscle. An Enzyme Histochemical Study	241
Haglid, K. G., see Wroński, A., et al	81	Liwnicz, B. H., see Mancardi, G. L., et al	146
Harley, W. J., Canfield, P. J., Donnelly, T. M.: A Suspected	225	Maitland, N., see Ibelgaufts, H., et al	113
New Canine Storage Disease	225	Mancardi, G. L., Mandybur, T. I., Liwnicz, B. H.: Spongiform-	113
G., Pellissier, J. F., Toga, M.: Central Neurocytoma. An		like Changes in Alzheimer's Disease. An Ultrastructural	
Electron-microscopic Study of Two Cases	151	Study	146
Hayashi, S., see Sekiya, S., et al		Mandybur, T. I., see Mancardi, G. L., et al	

Martin, J. J., Farriaux, J. P., De Jonghe, P.: Neuropathology of		Salamon, G., see Hassoun, J., et al	151
Citrullinaemia	303	Sano, K., see Hori, T., et al	67
Masuzawa, T., Shimabukuro, H., Kamoshita, S., Sato, F.: The		Sato, F., see Masuzawa, T., et al	307
Ultrastructure of Primary Cerebral Rhabdomyosarcoma .	307	Schultz, R. D., see Cummings, J. F., et al	167
Mázló, M., Tariska, I.: Are Astrocytes Infected in Progressive		Sekiya, S., Tanaka, M., Hayashi, S., Oyanagi, S.: Light- and	
Multifocal Leucoencephalopathy (PML)?	45	Electron-microscopic Studies of Intracytoplasmic Acido-	
Martinelli, P., see Rizzuto, N., et al.	179	philic Granules in the Human Locus Ceruleus and Sub-	
Matsutani, M., see Hori, T., et al.	67	stantia Nigra	78
McComb, R. D., Jones, T. R., Pizzo, S. V., Bigner, D. D.:		Shaw, J. F., see Ibelgaufts, H., et al	113
Localization of Factor VIII/von Willebrand Factor and		Shimabukuro, H., see Masuzawa, T., et al	307
Glial Fibrillary Acidic Protein in the Hemangioblastoma:		Shimoji, A., see Miyakawa, T., et al.	315
Implications for Stromal Cell Histogenesis	207	Sidenius, P., see Jakobsen, J., et al	157
Merino Angulo, J., see Villar Negro, A. del, et al	250	Sima, A. A. F., see Felix, I. A	201
Michaud, J., Mizrahi, E. M., Urich, H.: Agenesis of the Vermis		Slettebø, M., see Lindboe, Ch. F., et al	299
with Fusion of the Cerebellar Hemispheres, Septo-optic		Smith, C., see Garris, D. R., et al	63
Dysplasia and Associated Anomalies. Report of a Case .	161	Song, SJ., see Okeda, R., et al	265
Mitchell, J., Caren, C. A.: Degeneration of Non-myelinated		Sourander, P., see Wroński, A., et al	81
Axons in the Rat Sciatic Nerve Following Lysolecithin		Steck, A. J., see Vandevelde, M., et al 1;	285
Injection	187	Sung, J. H.: Autonomic Neurons of the Sacral Spinal Cord in	
Miyakawa, T., Kuramoto, R., Shimoji, A., Higuchi, Y.: Fine		Amytrophic Lateral Sclerosis, Anterior Poliomyelitis and	
Structure of Inclusion Body in the Nucleus of Alzheimer Glia		"Neuronal Intranuclear Hyaline Inclusion Disease":	
Type II in the Brain of Hepatocerebral Degeneration	315	Distribution of Sacral Autonomic Neurons	233
Mizrahi, E. M., see Michaud, J., et al	161	Suzuki, K., see Adler, D., et al	75
Monaco, S., see Rizzuto, N., et al		, , , , , , , , , , , , , , , , , , , ,	
Moretto, G., see Rizzuto, N., et al		Tagliavini, F., Pietrini, V., Gemignani, F., Lechi, A., Pallini, R.,	
Moretz, R. C., see Kozlowski, P. B., et al	9	Federico, A.: Anderson-Fabry's Disease: Neuropatholog-	
Willetz, R. C., See Roziowski, I. B., et al	,	ical and Neurochemical Investigation	93
Nakamura, A., see Fujisawa, K	255	Takakura, A., see Hori, T., et al	67
Nishiyama, F., see Hori, T., et al	67	Takano, T., see Okeda, R., et al.	265
Nishiyama, 1., see mon, 1., et al	07	Takasawa, H., see Fukuhara, N., et al.	194
Ohama E Ikuta E : Atavia talangiastasia: Immunosuta		Tanaka, M., see Sekiya, S., et al.	78
Ohama, E., Ikuta, F.: Ataxia-telangiectasia: Immunocyto- chemical Demonstration of α-Fetoprotein and Hepatitis B		Tariska, I., see Mázló, M	45
	13	Teramoto, A., see Hori, T., et al.	67
Surface Antigen in the Liver	13	Toga, M., Gambarelli, D.: Ultrastructural Study of Three	07
Okeda, R., Funata, N., Song, SJ., Higashino, F., Takano, T.,		Cases of Encephalopathy with Hypsarrhythmia. Similarities	
Yokoyama, K.: Comparative Study on Pathogenesis of			211
Selective Cerebral Lesions in Carbon Monoxide Poisoning	266	of Lesions with Subacute Spongiform Encephalopathies .	311
and Nitrogen Hypoxia in Cats	265	Toga, M., see Hassoun, J., et al.	151 17
Origuchi, Y., see Fukuhara, N., et al	194	Tommasi, M., see Kopp, N., et al	75
Oyanagi, S., see Sekiya, S., et al.	.78	Towfighi, J., see Adler, D., et al	194
Director F. and Grand I. at al.	245	Tsubaki, T., see Fukuhara, N., et al	194
Pásztor, E., see Gazsó, L., et al.		Tsukada, N., Koh, ChS., Yanagisawa, N., Tsukagoshi, H.:	270
Pazzaglia, P., see Rizzuto, N., et al	179	Nervous Tissue Injury Induced by Immune Complexes .	279 279
Peiffer, J.: Gerstmann-Sträussler's Disease, Atypical Multiple	07	Tsukagoshi, H., see Tsukada, N., et al	219
Sclerosis and Carcinomas in a Family of Sheepbreeders .	87	Unish II as Mishaud I at al	161
Pellet, W., see Hassoun, J., et al		Urich, H., see Michaud, J., et al	161
Pellissier, J. F., see Hassoun, J., et al		Vandan Bana C. D. and Bannani, D. D. at al.	21.4
Pizzo, S. V., see McComb, R. B., et al.		VandenBerg, S. R., see Ramsey, P. B., et al	214
Platou, Ch. S., see Lindboe, Ch. F.		Vandevelde, M., Higgins, R. J., Kristensen, B., Kristensen, F.,	
Popow-Kraupp, Th., see Budka, H., et al		Steck, A. J., Kihm, U.: Demyelination in Experimental	
Potter, R. de, see Reuck, J. de, et al	136	Canine Distemper Virus Infection: Immunological,	20.5
		Pathologic, and Immunohistological Studies	285
Ramsay, P. B., VandenBerg, S. R., Eng, L. F., Herman, M. M.,		Vandevelde, M., Kristensen, F., Kristensen, B., Steck, A. J.,	
Rubinstein, L. J.: Immunologic Recognition of Cell Surface		Kihm, U.: Immunological and Pathological Findings in	
Antigens in Normal Mouse Neural Tissues and in		Demyelinating Encephalitis Associated with Canine	
Neuroepithelial Cells of the OTT-6050 Mouse Teratoma. A		Distemper Virus Infection	1
Radiometric, Gel Electrophoretic and Morphologic		Villar Negro, A. del, Merino Angulo, J., Rivera Pomar, J. M.,	
(Immunofluorescence and Immunoperoxidase) Study		Aguirre Errasti, C.: Tubular Aggregates in Skeletal Muscle	
Ransohoff, J., see Cravioto, H. M., et al		of Chronic Alcoholic Patients	250
Renaud, B., see Kopp, N., et al	17		
Reuck, J. de, Coster, W. de, Potter, R. de, Eecken, H. vander:		Wisniewski, H. M., see Kozlowski, P. B., et al	9
Inhibition of the Target Phenomenon in Tenotomized		Wroński, A., Haglid, K. G., Rosengren, L., Rönnbäck, L.,	
Rabbit Muscle by Medullary Lesions	136	Sourander, P.: The Influence of Early Protein-Calorie	
Rieke, G. K., Bowers, D. E., Jr.: Acute Effects of the		Malnutrition and Postnatal Rehabilitation on Levels of a	
Neurotoxin Kainic Acid on Neurons of the Pigeon Basal		Brain-specific Protein (S 100) in Discrete Rat Brain Areas	81
Ganglia. Electrophysiological and Light and Electron			
Microscopic Observations		Yagishita, S., Itoh, Y., Chiba, Y., Kuwana, N.: Morphological	
Rivera Pomar, J. M., see Villar Negro, A. del, et al		Investigations on Cerebellar "Neuroblastoma" Group	22
Rizzuto, N., Moretto, G., Monaco, S., Martinelli, P., Pazzaglia,		Yanagisawa, N., see Tsukada, N., et al	279
P.: Chronic Relapsing Polyneuritis. A Light- and Electron-		Yokoyama, K., see Okeda, R., et al	265
microscopic Study			
Rönnbäck, L., see Wroński, A., et al			
Rosengren, L., see Wroński, A., et al			
Rubinstein, L. J., see Ramsey, P. B., et al	214	Indexed in Current Contents	

